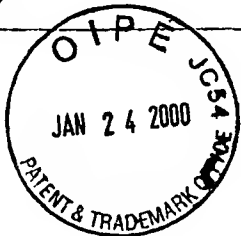


SEQUENCE LISTING



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(1) GENERAL INFORMATION:

(i) APPLICANT: Borts, Tracy L.  
Broderick, Carol L.  
DiMarchi, Richard D.  
Grinnell, Brian W.  
Miller, Anne R.

(ii) TITLE OF INVENTION: DIABETES THERAPY

(iii) NUMBER OF SEQUENCES: 9

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Eli Lilly and Company  
(B) STREET: Lilly Corporate Center  
(C) CITY: Indianapolis  
(D) STATE: Indiana  
(E) COUNTRY: USA  
(F) ZIP: 46285

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 09/091,605  
(B) FILING DATE: 16-JUN-1998  
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Davis, Steven G.  
(B) REGISTRATION NUMBER: 39,652  
(C) REFERENCE/DOCKET NUMBER: X-9872

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (617) 250-1833  
(B) TELEFAX: (617) 354-6355

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 2  
(D) OTHER INFORMATION: /note= "Xaa at position 2 is Ala,  
Gly, Val, Thr, and Ile"

(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 15  
(D) OTHER INFORMATION: /note= "Xaa at position 15 is Glu,  
Gln, Ala, Thr, Ser, and Gly"

(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 20  
(D) OTHER INFORMATION: /note= "Xaa at position 20 is Lys,  
and Arg"

*Al cont*  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 21  
(D) OTHER INFORMATION: /note= "Xaa at position 21 is Glu,  
Gln, Ala, Thr, Ser, and Gly; and,"

(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 31  
(D) OTHER INFORMATION: /note= "Xaa at position 31 is  
Gly-OH or is absent"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

His	Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Xaa	Gly
1				5					10					15	

Gln	Ala	Ala	Xaa	Xaa	Phe	Ile	Ala	Trp	Leu	Val	Lys	Gly	Arg	Xaa
			20					25					30	

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 93 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:  
(A) NAME/KEY: CDS  
(B) LOCATION: 1..93

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CAT GCT GAA GGG ACC TTT ACC AGT GAT GTA AGT TCT TAT TTG GAA GGC  
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

93

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
/ 1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
20 25 30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

48

93

(A) LENGTH: 31 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

His Val Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
20 25 30

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GACATGCTGA AGGGACCTTT ACCAGTGATG TAAGTTCCTTA TTTGGAAGGC CAAGCTGCCA 60

AGGAATTCAT TGCTTGCTG GTGAAAGGCC GAGGATAGGG ATCCC 105

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CTAGGGGATC CCTATCCTCG GCCTTTCACC AGCCAAGCAA TGAATTCCTT GGCAGCTTGG 60

CCTTCCAAAT AAGAACTTAC ATCACTGGTA AAGGTCCCTT CAGCATGTC 109

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

*A!*  
*Conc'd*  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GACATGTTGA AGGGACCTTT ACCAGTGATG TAAGTTCTTA TTTGGAAGGC CAAGCTGCCA 60

AGGAATTCAT TGCTTGGCTG GTGAAAGGCC GAGGATAGGG ATCCC 105

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

CTAGGGGATC CCTATCCTCG GCCTTTCACC AGCCAAGCAA TGAATTCCTT GGCAGCTTGG 60

CCTTCCAAAT AAGAACTTAC ATCACTGGTA AAGGTCCCTT CAACATGTC 109

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